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1959

AMERICAN UNIVERSITY of Beirut OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN: DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

HALIM HOURANI, OBSERVER

LIBRARY
N.O.A.A.
U.S. Dept. of Commerce

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

January 1959

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135 120

JANUARY 1959

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20.30	Mean
1	66.8	65.8	66.2	66.3	18.4	13.1	14.3	16.6	15.5	15.5
2	66 8	64.6	63.1	64.8	18·1	14.6	14.6	17.2	16.6	16.1
3	61.5	60.0	61.2	60.9	20.3	14 5	16.6	19.9	15.4	17.3
4	62.1	60.9	61.7	61.6	20.4	14.0	16.2	19.1	15.9	17.1
5	60.7	59 3	60.4	60.1	20.3	15.2	15.2	17.2	17.7	16.7
6	60.5	59.7	59.7	60.0	19.4	10.3	16.2	18.6	16.0	16.9
7	59.8	59.0	60.5	59.8	16.3	8.7	10.5	11.4	8.9	10.3
8	62.6	62.3	63.3	62.7	14.9	10.6	10.7	14.4	13.9	13.0
9	64.6	63.7	64.0	64.1	17 5	13.0	13.4	16.6	14.0	14.7
10	63.0	61.9	62.3	62.4	18.4	14.7	14 8	17.1	15.5	15.8
11	61.9	60.5	61.3	61.2	19.0	13.5	15.6	17.9	14.9	16.1
12	63.2	63.2	64.9	63.8	18.4	13.6	15.2	17.3	14.9	15.8
13	66.1	65.0	64.2	65.1	18.2	14.7	14.8	17.0	15.1	15.6
14	62.7	61.6	61 9	62.1	19.8	12.8	15 8	18.2	15.0	16.3
15	61.6	59.9	61.9	61.1	15.2	12 1	13 0	13.7	13.6	13.4
16	65.2	64.3	65.2	64.9	18.0	15.5	14.8	17.6	14.2	15.5
17	63.9	62.0	62.1	62.7	19.4	15.4	15.4	18.0	16.0	16.5
18	58.9	56.0	56.3	57.1	19.6	9.2	17.1	18.5	12.3	16.0
19	54.0	54.1	57.3	55.1	13.7	8.5	10.1	11.2	10.5	10.6
20	59.6	60.4	62.2	60.7	14.3	9.6	10.2	11.2	10.1	10 5
21	64.4	64.3	66.2	65.0	14.8	10.5	10.9	14.2	12.0	12.4
22	68.1	67.7	68.1	68.0	15.6	11.6	11.4	14.7	13.0	13.0
23	68.1	66.0	66.1	66.7	17.1	13.1	13.3	16.0	13.6	14.3
24	64.5	62.7	63.0	63.4	17.7	12.5	15.0	16.5	15.5	15.7
25	63.3	62.6	63.5	63.1	17.8	12.2	14.1	17.1	13.7	15.0
26	64.7	63.1	62.9	63.6	17.8	13.7	14.1	17.4	15.2	15.6
27	61.3	59.6	61.1	60.7	20 0	13.1	16.9	19.7	15.9	17.5
28	59.3	58.9	59.6	59 3	20.0	12.7	17.1	18.6	15.0	16.9
29	59.6	59.6	60.7	60.0	15.9	11.6	15.0	15.1	12.0	14.0
30	60.5	68.8	59.9	59.7	15.0	6.6	13.4	12.8	8.1	11.4
31	60.6	60.9	61.9	61.1	12.4	7.2	8.7	11.0	9.5	9.7
	62.58	61.56	62.34	62.16	17.54	12.21	14.04	16.19	13.85	14.68

Barometer, range for month 768.1 mm. — 754.0 mm.
„ 71-yr. average for month 763.184 mm.
Thermometer, range for month 20.4°C — 6.6°C
„ 82-yr. average for month 13.4°C
Rain total for month 275.58 mm.
„ 82-yr average for month 191.3 mm.
„ Total, Sept. 1st. to end of month 423.70 mm.
„ 82-yr average. Sept. 1st. to end of month 566.60 mm.

JANUARY 1959

METEOROLOGICAL REGISTER

Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	9.0	10.6	11.5	10.4	55	56	65	59	8.3	126	
2	12.2	13.4	13.0	12.9	74	68	69	70	4.1	63	
3	10.3	12.6	7.9	10.3	55	54	45	51	2.1	18	
4	10.6	13.7	11.9	12.1	57	62	65	61	8.1	61	
5	10.8	14.2	13.9	13.0	62	72	69	68	1.0	40	2.60
6	12.8	13.0	11.1	12.3	69	61	61	64	5.8	285	0.85
7	11.8	9.1	10.1	10.3	93	66	89	83	0.1	283	57.57
8	11.6	11.9	11.1	11.5	90	72	70	77	3.3	206	14.11
9	10.8	11.3	11.5	11.2	69	60	72	67	6.3	79	
10	9.4	10.4	10.6	10.1	55	51	61	56	7.1	50	
11	9.7	13.0	11.7	11.5	55	64	70	63	5.1	53	
12	9.1	13.9	13.4	12.1	53	70	80	68	7.5	84	
13	11.4	14.3	12.4	12.7	69	74	72	72	8.5	34	
14	9.5	14.4	13.3	12.4	54	69	79	67	7.0	55	
15	13.5	13.1	12.7	13.1	91	84	82	86	0.1	84	16.50
16	12.4	12.3	11.0	11.9	74	62	68	68	4.0	121	
17	10.5	12.4	11.5	11.5	60	60	63	61	7.8	69	
18	10.4	13.1	12 8	12.1	53	61	92	69	1.5	235	9.05
19	11.0	12.6	11.4	11.7	90	94	90	91	0.3	335	102.72
20	10.9	10.5	10.9	10.8	87	78	86	84	2.0	142	11.10
21	10.0	10.7	10.8	10.5	75	65	76	72	8.0	31	
22	10.4	10 7	10.0	10.4	75	64	66	68	6.2	35	0.97
23	9.9	10.4	11.3	10.5	64	57	72	64	6.8	98	
24	12.3	12.7	12.1	12.4	72	68	69	70	0.4	135	
25	13.1	13.5	13.1	13.2	82	69	84	78	3.2	90	4.30
26	11.2	12.1	14.2	12.5	70	60	83	71	8.4	103	
27	9.5	9.1	9.8	9.5	49	40	55	48	9.0	249	
28	7.4	9.8	11.6	9.6	37	46	69	51	9.1	180	
29	12.0	8.6	7.2	9.3	71	51	52	58	4.7	295	1.23
30	7.7	8.1	9.5	8.4	50	56	91	66	2.8	360	29.92
31	9.5	9.7	9.9	9.7	83	73	83	80	0.9	304	24.66
	10.67	11.78	11.39	11.29	67.5	64.1	72.5	68.1	4.82	138.81	8.89

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 year averages are for period, 1875-1945

JANUARY 1959
METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				Beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	0	0	0.0	1e	2ne	2ne	light	D.a.m
2	8ci	10st	8st	8.7	2sw	1w	3sw	,,	D.a.m
3	10st	7cu	0	5.7	1e	1w	1sw	,,	
4	2ci-cu	1ci	0	1.0	1se	1sw	1s	,,	
5	10st-ni	10st-ni	10st-ni	10.0	2se	3sw	2sw	,,	
6	8st-ci-cu	9cu-st	0	5.7	2sw	3sw	4sw	sligh	
7	10ni	10st-ni	10st-ni	10.0	2s	6w	2w	,,	Hail. Rainbow.p.m
8	10ni	9cu-st	3cu	7.3	2se	2sw	2s	light	
9	10st	4cu-st	0	4.7	2s	2sw	2s	,,	
10	7ci	3ci	0	3.3	2e	1ne	1ne	,,	D.a.m
11	10st	2cu	0	4.0	2se	2e	2se	light	
12	10st	3cu	0	4.3	1s	2sw	2se	,,	
13	10ci	3cu-ci	0	4.3	1e	2e	2e	,,	D.a.m.p.m
14	10ci	2cu	2cu	4.7	1sw	2sw	2sw	,,	
15	10ni	10cu-st	0	6.7	1sw	1s	1sw	,,	
16	9cu	8cu-ci	1ci	6.0	2sw	3sw	2sw	light	
17	5cu-ci	3ci-cu	3cu	3.7	1se	2w	2sw	,,	
18	10st-ni	8cu-ni	10ni	9.3	1s	3w	2w	slight	
19	10st-cicu	10ni	10ni	10.0	2se	2sw	2sw	light	
20	10st	10st-ni	7cu	9.0	2sw	2w	1sw	,,	
21	3cu	2cu	0	1.7	2s	2sw	2s	light	
22	10cu-st	9cu-ci	8st-cu	9·0	2sw	2nw	2sw	,,	
23	3cu	10ci-cu	8st-cu	7.0	2s	2sw	1s	,,	
24	10st	10st-ni	10st-ni	10.0	2sw	3w	3sw	slight	
25	6ci-cu	6cu	10st	7.3	2sw	1w	1e	,,	
26	2cu-ci	9ci-cu	1cu	2.0	2sw	2sw	2sw	light	
27	4ci	0	0	1.3	3sw	4sw	3sw	slight	
28	0	0	0	0.0	3sw	3sw	2sw	,,	
29	9cu-ni	5cu	1cu	5.0	3sw	4sw	3sw	,,	
30	7ci	10cu-st	10ni	9.0	3sw	4sw	5s	,,	
31	10st-ni	7cu	10ni	9.0	3sw	3se	2sw	,,	T.Hail.P.m
	mean			5.80					

Abbreviations : G = gale ; H = haze ; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	0	4	6	6	15	0	0	0	31
14:30	0	2	2	1	1	16	8	1	0	31
20:30	0	2	2	2	5	18	2	0	0	31
Total	0	4	8	9	12	49	10	1	0	93

Number of days with rain 13, fog 0, thunderstorms 1, gale. 0
71 yr. av. number of days with rain during month 15.67
Time of reading minus 2 hours equals G.C.T